

Title (en)

Stratified charge variable compression ratio engine.

Title (de)

Schichtladungsbrennkraftmaschine mit variablem Verdichtungsverhältnis.

Title (fr)

Moteur à charge stratifiée et à taux de compression variable.

Publication

EP 0067031 A1 19821215 (EN)

Application

EP 82302831 A 19820602

Priority

GB 8116915 A 19810602

Abstract (en)

[origin: CA1183781A] TITLE: STRATIFIED CHARGE VARIABLE COMPRESSION RATIO ENGINE APPLICANT: RONALD MERVYN AMM An engine includes an engine block (10) provided with cylinders (12,14) having two pistons (16,18) and a cylinder head (19) having a piston (20) biased by means of torsion bars (24). The biased piston (20) is held in position by an arm (22) which is restrained by torsion bars (24). During the compression stroke of the engine the biased piston (20) is seated with faces (30,32), in contact and on ignition of the compressed mixture the biased piston (20) is lifted off the seat (32) creating a common combustion chamber in which separate charges are mixed. The biased piston (20) limits the combustion space and thereby controls the compression ratio to suit the desired performance.

IPC 1-7

F02B 17/00; **F02B 19/06**

IPC 8 full level

F02B 75/00 (2006.01); **F02B 17/00** (2006.01); **F02B 19/06** (2006.01); **F02B 75/04** (2006.01); **F02B 75/36** (2006.01); **F02D 15/00** (2006.01); **F02D 15/04** (2006.01); **F02B 3/06** (2006.01)

CPC (source: EP US)

F02B 17/00 (2013.01 - EP US); **F02B 19/06** (2013.01 - EP US); **F02B 75/04** (2013.01 - EP US); **F02B 3/06** (2013.01 - EP US); **Y02T 10/12** (2013.01 - EP US)

Citation (search report)

- [Y] EP 0021170 A1 19810107 - BUCHNER BERNHARD DIPL ING
- [Y] DE 2337509 A1 19750213 - DAIMLER BENZ AG
- [A] GB 471410 A 19370903 - LEONARD LOCKYEAR
- [A] DE 2456062 A1 19760812 - PORSCHE AG
- [AD] FR 1110808 A 19560217

Designated contracting state (EPC)

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DOCDB simple family (publication)

EP 0067031 A1 19821215; **EP 0067031 B1 19850911**; AT E15527 T1 19850915; AU 555055 B2 19860911; AU 8440682 A 19821209; CA 1183781 A 19850312; DE 3266159 D1 19851017; JP H0323733 B2 19910329; JP S5841238 A 19830310; US 4503815 A 19850312; ZA 823862 B 19831026

DOCDB simple family (application)

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